

REMARKS

Claims 1-10 are pending in this application. By this Amendment, claims 1-10 are amended for clarification purposes only. Reconsideration in view of the above amendments and following remarks is respectfully requested.

It is gratefully appreciated that the Office Action indicates that claims 1-10 would be allowable if rewritten to overcome the rejections under 35 U.S.C. §112, second paragraph.

The Office Action rejects claims 1-10 under 35 U.S.C. §112, second paragraph.

Claims 1-10 are amended to obviate the rejection.

Furthermore, the "limit" recited, for example, and claim 1 may be the value for limiting a peak arising in a transmission signal as shown in Fig. 4 and page 13 of the present application. For example, a value for limiting the peak is shown as THRESHOLD and THRESHOLD+ in the specification and figures. See Fig. 12.

The differential signal generating means is shown as SUBTRACTER 204 and LIMITER 202 and the SECOND, THIRD and FIFTH OFDM TRANSMITTERS 2, 3 and 5 shown in Figs. 5, 13 and 20. These features are clearly described in the present application.

The amplitude limiting means is shown as DELAY UNIT 200 and SUBTRACTER 206 in Figs. 5, 13 and 20 and these features are also clearly described in the present application.

The prescribed (band) content is shown as FIR FILTER 22 in SECOND, THIRD and FIFTH OFDM TRANSMITTERS 2, 3 and 5 in Figs. 5, 13 and 20. The configuration and operation of the FIR FILTER 22 is described with reference to Fig. 8 in the present application. This filter may pass a predetermined frequency band of an input signal (e.g., DIFFERENTIAL DATA from SUBTRACTER 204). The filtered differential signal may be the signal generated by SUBTRACTER 204 and then may be filtered out by FIR FILTER 22. For example, the filtered differential signal is FILTER OUTPUT DATA shown in Fig. 5. The amplitude limitation is the limiting of the amplitude of the subject signal carried out by the amplitude limiting means.

As shown in Fig. 2, for example, the claimed invention may be implemented by using a digital signal processor (DSP). The TRANSMISSION DATA GENERATING UNIT 10 of the SECOND, THIRD and FIFTH OFDM TRANSMITTERS 2, 3 and 5 shown in Figs. 5, 13 and 20 is described with reference to Fig. 1. A method for generating OFDM transmission signals is explained in the specification with regard to Fig. 1. For example, it is disclosed that each of the MAPPING UNITS 102-1, ... 102-n performs modulation by relating the symbols to the phase and the amplitude of a certain carrier. See page 10 of the present application, lines 21-23. In other words, the generation of the OFDM signal can be performed by mapping the "symbols" to the "subcarrier components" using the digital processing carried out by the DSP.

A second PEAK SUPPRESSING UNIT 24 of the THIRD OFDM TRANSMITTER 3 may include a plurality of filtering means, e.g., FIR FILTER UNITS 22-1, 22-2, and it is described in the present application with reference to Fig. 13 that each of the filtering means passes a subcarrier, e.g., one or more of a plurality of bands, that is different from a subcarrier being passed by another filtering means. The another filtering means may be, for example, the FIR FILTER UNIT 22-1 for FIR FILTER UNIT 22-2 or FIR FILTER UNIT 22-2 for FIR FILTER UNIT 22-1.

The OFDM SIGNAL and the SECOND OFDM TRANSMITTER 2 shown in Fig. 3, etc., and generated by TRANSMISSION DATA GENERATING UNIT 10, processed by PEAK SUPPRESSION UNIT 20, etc., converted to an analog format signal by a D/A CONVERTER UNIT 120 and a TRANSMITTER UNIT 12 (shown in Fig. 1) and frequency-converted by the FREQUENCY-CONVERTER UNIT 124 receives power by amplification of the TX AMP 126 and the TRANSMISSION DATA GENERATING UNIT 10.

Based on the above-amendments and remarks above, it is respectfully requested that the rejection under 35 U.S.C. §112, second paragraph, be withdrawn.

In view of the foregoing, this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-10 are earnestly solicited.

Should the Examiner believe that anything further is desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact Applicant's attorney at the telephone number listed below.

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